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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,396	01/21/2004	Timothy Lin	BHT-3111-405	1306
7	590 03/24/2005		EXAMINER	
BRUCE H. TROXELL SUITE 1404			LOKE, STEVEN HO YIN	
5205 LEESBU	RG PIKE		ART UNIT	PAPER NUMBER
FALLS CHURCH, VA 22041			2811	
			DATE MAILED: 03/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summan	10/760,396	LIN ET AL.	(En
Office Action Summary	Examiner	Art Unit	
	Steven Loke	2811	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence addr	ess
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	I 36(a). In no event, however, may a reply be to be sometiment of thirty (30) day will apply and will expire SIX (6) MONTHS from the application to become ABANDON	timely filed  ays will be considered timely.  m the mailing date of this comi  IED (35 U.S.C. § 133).	munication.
Status			
1) Responsive to communication(s) filed on	•		
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	s action is non-final.		
3) Since this application is in condition for allowa	nce except for formal matters, p	rosecution as to the n	nerits is
closed in accordance with the practice under t	Ex parte Quayle, 1935 C.D. 11, 4	453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-4 is/are pending in the application.			
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-4</u> is/are rejected.			,
7) Claim(s) is/are objected to.	on all all an one or donor and	-	
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to by the	e Examiner.	
Applicant may not request that any objection to the	<del>-</del> · · ·		
Replacement drawing sheet(s) including the correct	,	•	
11) ☐ The oath or declaration is objected to by the E.	xaminer. Note the attached Offic	ce Action or form PTO	9-152.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreigr a)⊠ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(	a)-(d) or (f).	
1. Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document	s have been received in Applica	ation No	
3. Copies of the certified copies of the prior		ved in this National St	tage
application from the International Burea	, ,,,		
* See the attached detailed Office action for a list	of the certified copies not receive	ved.	
	·		
Attachment(s)  1) X Notice of References Cited (PTO-892)	4) 🔲 Interview Summai	n/ (PTO-413)	
2) Delice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail I	Date	
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date</li> </ol>	5) Notice of Informal 6) Other:	Patent Application (PTO-1	52)
- aper recognition dute	ر المال		

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1. Figures 1-11 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

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2. The disclosure is objected to because of the following informalities: It is believed that the reference numeral for the second stand is 2 instead of 5 (page 7, line 17).

Appropriate correction is required.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1 and 4 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Chin et al.

In regards to claim 1, Chin et al. show all the elements of the claimed invention in figs. 4B and 5C. It is a LED package, comprising: a first stand [17], having a concave bowl section thereon and a first pin [19] extended from the bottom thereof; a second

stand (the stand opposite to stand [17]), being adjacent to but a distance apart from said first stand, and having a second pin (the pin opposite to pin [19]) disposed at the bottom of said second stand; an LED chip [14], being disposed in said bowl section, and using a conductive wire to electrically couple to said second stand; and a packaging object [18], for encapsulating said first stand, second stand, and LED chip, and exposing only said first pin and second pin, and having a plane [16] perpendicular to the light [37] traveling direction and disposed at a top surface of said packaging object [18], and said top surface comprising at least a circular protrusion (a circular arc protrusion).

It is inherent that the conductive wire is made of metal because it is a conventional electrical conductive material.

In regards to claim 4, Chin et al. further disclose the packaging object [18] is epoxy.

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chin et al. in view of Prior art (fig. 3A of the application).

In regards to claim 2, Chin et al. differ from the claimed invention by not showing said first bowl section disposed on said first stand has an elliptic cross section.

Prior art (fig. 3A) discloses said first bowl section disposed on said first stand has an elliptic cross section.

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Since both Chin et al. and Prior art (fig. 3A) disclose a LED package with a LED formed on a concave bowl section, it would have been obvious to have the elliptic first bowl section of Prior art (fig. 3A) in Chin et al. because it depends on the shape of the LED chip.

In regards to claim 3, Chin et al. differ from the claimed invention by not showing said conductive metal wire has one end coupled to the anode of said LED chip.

Prior art (fig. 3A) discloses said conductive metal wire has one end coupled to the anode of said LED chip.

Since both Chin et al. and Prior art (fig. 3A) disclose a LED package with a LED formed on a concave bowl section, it would have been obvious to have the conductive metal wire has one end coupled to the anode of said LED chip because it can turn on the LED to emit light.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Loke whose telephone number is (571) 272-1657. The examiner can normally be reached on 7:50 am to 5:20 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Steven Sole

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March 19, 2005